

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	15	((("6847744") or ("6832030") or ("6850654") or ("6836599") or ("6760495") or ("6643433") or ("6718095") or ("6763685") or ("5818584") or ("5883992") or ("5694512") or ("5796885") or ("5479546") or ("5119453") or ("6574411")).PN.	US-PGPUB; USPAT	OR	OFF	2005/05/12 10:21
S2	12	((("4291940") or ("4330170") or ("4392712") or ("4426215") or ("4550974") or ("5864644") or ("6434302") or ("4205901") or ("5381503") or ("5664037") or ("6414262") or ("20030128723")).PN.	US-PGPUB; USPAT	OR	OFF	2005/05/12 10:27
S3	8	("5268979"   "5295205").PN. OR ("5664037").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 10:36
S4	23	("4818062"   "5185758"   "5268978"   "5708669").PN. OR ("5864644").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 10:37
S5	15	("3808549"   "4291940"   "4815079"   "4820010"   "5170458"   "5263036"   "5268978"   "5355426"   "5459804"   "5553179"   "5864644"   "6134362").PN. OR ("6434302").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 10:42
S6	0	("2003/0128723").URPN.	USPAT	OR	ON	2005/05/12 10:44
S7	3751	((multi\$mode with (fiber or fibre)) or "MMF") and ((few\$mode with (fiber or fibre)) or (few with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 10:47
S8	525	((multi\$mode with (fiber or fibre)) or "MMF") and ((few\$mode with (fiber or fibre)) or (few with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 10:48

S9	433	((multi\$mode with (fiber or fibre)) or "MMF") and ((few\$mode with (fiber or fibre)) or (few with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4 and mode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 10:48
S10	409	((multi\$mode with (fiber or fibre)) or "MMF") and ((few\$mode with (fiber or fibre)) or (few with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4 and mode and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 12:10
S11	0	("2005/0094952").URPN.	USPAT	OR	ON	2005/05/12 11:23
S12	509	((multi\$mode with (fiber or fibre)) or "MMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4 and mode and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 11:30
S13	100	S12 not S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 11:24
S14	3296	((multi\$mode with (fiber or fibre)) or "MMF") and (double\$clad\$4 with (fiber or fibre)) or (two with clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4 and mode and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 11:31
S15	1	("5864644").PN.	US-PGPUB; USPAT	OR	OFF	2005/05/12 11:53
S16	23	("4818062"   "5185758"   "5268978"   "5708669").PN. OR ("5864644").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:54
S17	15	("3808549"   "4291940"   "4815079"   "4820010"   "5170458"   "5263036"   "5268978"   "5355426"   "5459804"   "5553179"   "5864644"   "6134362").PN. OR ("6434302").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:54

S18	494	((multi\$mode with (fiber or fibre)) or "MMF") and (((few\$mode or single\$mode) with (fiber or fibre)) or ((single or few) with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4 and mode and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:17
S19	85	S18 not S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 12:11
S20	645	((multi\$mode with (fiber or fibre)) or "MMF") and (((few\$mode or single\$mode) with (fiber or fibre)) or ((single or few) with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF" or (cladding\$pumped with (fiber or fibre)) or (clad\$4 with pump\$4 with (fiber or fibre))) and coupl\$4 and fus\$4 and mode and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:18
S21	151	S20 not S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:19
S22	1	2001-051872.NRAN.	DERWENT	OR	ON	2005/05/12 13:28

S23	23	(US-20030128723-\$ or US-20030012526-\$ or US-20040091219-\$ or US-20040196537-\$ or US-20040247271-\$ or US-20050094952-\$ or US-20040252946-\$ or US-20050031266-\$).did. or (US-4392712-\$ or US-5664037-\$ or US-5864644-\$ or US-6434302-\$ or US-6823117-\$ or US-6434295-\$ or US-5355426-\$ or US-5761234-\$ or US-6167075-\$ or US-6397636-\$ or US-6840687-\$ or US-5479546-\$).did. or (JP-11072629-\$).did. or (EP-1054276-\$ or JP-2001010838-\$ or EP-1054276-\$ or US-6397636-\$ or US-20020054740-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/05/12 13:44
S24	3	S23 and (few\$mode or (few with mode))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:47
S25	554	((single with mode) or single\$mode) and (few\$mode or (few with mode)) with fiber	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:47
S26	443	((single with mode) or single\$mode) same (few\$mode or (few with mode)) with fiber	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:50
S27	443	((single with mode) or single\$mode) same (few\$mode or (few with mode)) with fiber) and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:48
S28	88	((single with mode) or single\$mode) with fiber) same ((few\$mode or (few with mode)) near2.fiber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:50

S29	26	(US-20030128723-\$ or US-20030012526-\$ or US-20040091219-\$ or US-20040196537-\$ or US-20040247271-\$ or US-20050094952-\$ or US-20040252946-\$ or US-20050031266-\$ or US-20040197062-\$).did. or (US-4392712-\$ or US-5664037-\$ or US-5864644-\$ or US-6434302-\$ or US-6823117-\$ or US-6434295-\$ or US-5355426-\$ or US-5761234-\$ or US-6167075-\$ or US-6397636-\$ or US-6840687-\$ or US-5479546-\$ or US-4877300-\$).did. or (JP-11072629-\$).did. or (EP-1054276-\$ or JP-2001010838-\$ or EP-1054276-\$ or US-6397636-\$ or US-20020054740-\$ or EP-307228-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/05/13 08:01
S30	3	S29 and dummy	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/13 08:12
S31	5	S29 and gaussian	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/13 08:12


[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

Search Results

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "( few mode&lt;in&gt;metadata ) &lt;and&gt; ( fiber&lt;in&gt;metadata ) &lt;and&gt; ( coupler&lt;in&gt;..."

Your search matched 3 of 1157693 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

» [View Session History](#)» [New Search](#)» [Key](#)

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

IEEE STD IEEE Standard

## Modify Search

( few mode&lt;in&gt;metadata ) &lt;and&gt; ( fiber&lt;in&gt;metadata ) &lt;and&gt; ( coupler&lt;in&gt;metadata )

☐ Check to search only within this results setDisplay Format: ☒ Citation ☐ Citation & Abstract

## Select Article Information

- ☐ 1. **Broad-band LP/sub 02/ mode excitation using a fused-type mode-selective coupl**  
Kwang Yong Song; Byoung Yoon Kim;  
Photonics Technology Letters, IEEE  
Volume 15, Issue 12, Dec. 2003 Page(s):1734 - 1736  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(246 KB) IEEE JNL
- ☐ 2. **Record bandwidth, spectrally flat coupling with microbend gratings in dispersior**  
Ramachandran, S.; Yan, M.F.; Monberg, E.; Dimarcello, F.V.; Wisk, P.; Ghalimi, S.;  
Photonics Technology Letters, IEEE  
Volume 15, Issue 11, Nov. 2003 Page(s):1561 - 1563  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(221 KB) IEEE JNL
- ☐ 3. **Modal cutoffs in single- and few-mode fiber couplers**  
Love, J.; Ankiewicz, A.;  
Lightwave Technology, Journal of  
Volume 3, Issue 1, Feb 1985 Page(s):100 - 110  
[AbstractPlus](#) | Full Text: [PDF](#)(1056 KB) IEEE JNL

View Selected Items

FILE COPY

indexed by  
Inspec[Help](#) [Contact Us](#) [Privacy &](#)

© Copyright 2005 IEEE -

[Log In](#) [Log Out](#)[Home](#) [Advanced Search](#) [Search Results](#) [Help Center](#)

There are **0 match(es)** in **0 book(s)** found for **(few mode) AND (coupler)**

**Book****Results****Rank Dat**

Copyright © 2004 Knovel Corporation

FILE COPY



May 16, 2005

USPTO



### Search

Full Text
Concept
Document ID
Recent Disclosures

### Publish

Publish Disclosure
--------------------

### My IP.com

Manage Account
Prior Purchases
Prior Disclosures
Events
Main Page
Support
Logout

### Fingerprint Lookup

<input type="text"/>
<input type="button" value="Lookup"/>

**No records matched your search.**

Perhaps you should try a less restrictive query.

**Search query:** few mode AND coupler

[New search](#) | [Modify this search](#)

Copyright © 2005 IP.com, Inc. All rights reserved. |

FILE COPY





[SPIE DL home](#) | [Scitation home](#) | [Search SPIN](#) | [help](#) | [contact](#) | [sign in](#) | [sign out](#)

[SPIE Digital Library](#)

[Proceedings](#)

[Journals](#)

**SPIE—The International  
Society for Optical Engineering**

[My SPIE Subscription](#) | [My E-mail Alerts](#) | [My Article Collections](#)

[Home](#) » [Advanced Search](#) » [Search Results](#)

SEARCH DIGITAL LIBRARY

[\[Back to Search Query](#) | [Start New Search](#) | [Searching Hints\]](#)

☒ Digital SPIE Papers

☐ All SPIE Papers

**Search**

[Advanced Search](#)

## Search Results

**You were searching for : (((few mode) <and>(fiber)) <and>(coupler))**

You found 1 out of 183628 (1 returned)

Documents 1 - 1 listed on this page

[Options for selected Articles](#)

Check Article(s) then ...

**Go**

Adding to MyArticles will open a second window (Scitation login required).

## BROWSE PROCEEDINGS

### ❖ Proceedings

- ❖ By Year
- ❖ By Symposium
- ❖ By Volume No.
- ❖ By Volume Title
- ❖ By Technology

## BROWSE JOURNALS

### ❖ Journals

- ❖ Optical Engineering
- ❖ J. Electronic Imaging
- ❖ J. Biomedical Optics
- ❖ J. Microlithography,  
Microfabrication,  
and Microsystems

## SUBSCRIPTIONS & PRICING

- ❖ Institutions &  
Corporations
- ❖ Personal  
subscriptions

## GENERAL INFORMATION

- ❖ About the Digital  
Library
- ❖ Terms of Use
- ❖ SPIE Home

[ Related SPIE Products ]

**77%**

1. ☐

### **Comparison of robust coupling techniques for planar waveguide immunosensors**

Douglas A. Christensen, Shellee Dyer, James N. Herron,  
and Vladimir Hlady  
Proc. SPIE Int. Soc. Opt. Eng. **1796**, 20 (1993) PDF (353  
kB)

[home](#) | [proceedings](#) | [journals](#)

[Terms of Use](#) | [Privacy Policy](#) | [Contact](#)

© 1994 - 2005



The International Society  
for Optical Engineering